

NE TECHNICAL SPECIFICATIONS

SLT (ANALOG STATION)

Signaling	Loop Start
Dialing	DTMF and Pulse (10/20PPS)
Off Hook AC Impedance	600/900/Complex
Off Hook Current	45mA Max
Loop Limit	1800Ω Max (Excluding Telephone)
On Hook Voltage (Tip/Ring)	48V Nominal
DTMF Detection	ITU-T Q.24
Return Loss	> 18dB
Longitudinal balance	> 50dB
Transmission Level Adjust	Tx Gain -10dB to 6dB, Rx Gain -10dB to 6dB
Ringing	Trapezoidal 60VRMS/25Hz and Sinusoidal 52VRMS/25Hz
REN	3
CLI Presentation	DTMF, FSK ITU-T V.23 and FSK Bellcore 202
Protection	Over Voltage Secondary Protection
Physical Connector	RJ11

DKP (DIGITAL STATION)

Signaling	Proprietary Digital (2B+D)
Interface	Single Pair for Speech, Signaling and Power
Loop Limit	100Ω
Speech Level	Adjustable Tx and Rx Gain for Handset and Hands-Free
Protection	Over Voltage Secondary Protection
Physical Connector	RJ11

CO (2-WIRE TRUNK)

Signaling	Loop Start
Loop Limit	1200Ω Off Hook AC
Impedance	600/900/Complex
Pulse Dialing	10/20PPS
DTMF Dialing & Reception	ITU-T Q.23 & Q.24
Return Loss	> 18dB
Longitudinal Balance	> 50dB
Transmission Level Adjust	Tx Gain -15dB to 10dB, Rx Gain -15dB to 10dB
CLI Reception	DTMF, FSK ITU-T V.23 and FSK Bellcore 202
Call Maturity	Delay and Polarity Reversal
Protection	Over Voltage and Over Current Secondary Protection
Physical Connector	RJ11

GSM

Frequency Band (MHz)	Quad-Band: GSM850, EGSM900, DCS1800, PCS1900
Compliant	ETSI GSM Phase 2/2+
SIM Card	One SIM Per GSM Port
SIM Interface	1.8V, 3V
Transmission Power	Class 4 (2W) at GSM850 and EGSM900 MHz Band Class 1 (1W) at DCS1800 and PCS1900 MHz Band
RF Sensitivity	Better than -106dBm
Protocol	AT Command Interface
External Antenna	One Antenna per GSM Port, 1.8/3.0*dBi, 50Ω SMA (Male) Connector, Omni Directional with Cable of 3 Meters Length

LED INDICATIONS

Power	Single Color (GREEN) LED
System Status	Dual Color (RED/GREEN) LED

UMTS (3G)

Frequency Band (MHz)	Quad-Band: GSM850, EGSM900, DCS1800, PCS1900, UMTS A Module: Tri-Band WCDMA 850/1900/2100, UMTS E Module: Tri-Band WCDMA 900/1900/2100
Compliant	ETSI GSM Phase 2/2+
SIM Card	One SIM Per UMTS (3G) Port
SIM Interface	1.8V, 3V
Transmission Power	Class 4 (2W) at GSM850 and EGSM900 Class 1 (1W) at DCS1800 and PCS1900 Class 3 (0.25W) at WCDMA 850/1900/2100
RF Sensitivity	Better than -106dBm at GSM850, EGSM900, DCS1800 and PCS1900 Better than -108 dBm at WCDMA850 Better than -108 dBm at WCDMA1900/2100
Protocol	AT Command Interface
External Antenna	One Antenna per UMTS (3G) Port, 1.8/3.0*dBi, 50Ω SMA (Male) Connector, Omni Directional with Cable of 3 Meters Length

VoIP

VoIP Protocols	SIPv2, SIP over TCP, Symmetric RTP, RTCP, 100rel/PRACK
Network Protocol	IPv4, TCP, UDP, STUN, ARP, ICMP, PPP, DNS
SIP	Maximum 8 SIP Accounts per System, Out Bound Proxy Support, Display Name, User Name, Password, URL, Proxy URL, Register Interval
Line Echo Cancellation	G.168 With 32/64/128ms Tail Length
Voice	Dynamic Jitter Buffer (Adaptive), Comfort Noise Generation and Voice Activity Detection NAT STUN and NAT Keep Alive
Voice CODEC	G.711 (A-law, μ-Law), G.723, G.729AB, GSM-FR and iLBC
Fax	T.38 Relay and Pass Through
Quality of Service	SIP QoS and RTP QoS
Security	Md5 Authentication for SIP, Password Protected Configuration by Admin and User
Data Network	Ethernet (RJ45) Port, Auto MDIX (10/100 base T)

POWER SUPPLY

Input	External Adaptor 24VDC, 1.5A
Power Consumption	15W (Typical)

ENVIRONMENT

Operating Temperature	-10°C to +50°C (14°F to 122°F)
Operating Humidity	5-95% RH, Non-Condensing
Storage Temperature	-40°C to +85°C (-40°F to +185°F)
Storage Humidity	0-95% RH, Non-Condensing

MECHANICAL

Dimension	30 W x 4.25 H x 20 D Cms (11.81"x1.67"x7.87")
Installation	Wall Mount, Table-Top, 19" Rack Mount
Unit Weight	Max. 1.300Kg (2.87lbs)
Shipping Weight	Max. 2.280kg (5.03lbs)

* Depends on GSM/UMTS(3G) Frequency Band

RESOURCES

SPECIFICATIONS	ETERNITY NE3	ETERNITY NE312	ETERNITY NE4	ETERNITY NE416	ETERNITY NE6
CO Ports	3	3	4	4	6
Single Line Telephones	6	12	10	16	14
Digital Key Phones	2	-	2	-	2
VoIP (SIP) Trunks*	8	8	8	8	8
IP Extensions*	16	16	16	16	16
GSM/3G Trunks*	2	2	2	2	2
Door Relay*	1	1	1	1	1
Ethernet Port	1	1	1	1	1
Voice Mail*	4 Channels				
Voice Messages	16 Messages of 16 Seconds Each (For Auto-Attendant, Voice Prompts, Voice Help)				

* Optional and Field Pluggable Module

ORDERING INFORMATION

PRODUCT	DESCRIPTION
ETERNITY NE3	PBX with 3 CO, 2 Digital and 6 Single Line Telephone Ports
ETERNITY NE312	PBX with 3 CO and 12 Single Line Telephone Ports
ETERNITY NE4	PBX with 4 CO, 2 Digital and 10 Single Line Telephone Ports
ETERNITY NE416	PBX with 4 CO and 16 Single Line Telephone Ports
ETERNITY NE6	PBX with 6 CO, 2 Digital and 14 Single Line Telephone Ports

OPTIONAL MODULE	DESCRIPTION
ETERNITY NE VoIP SERVER	8 VoIP Channels to Connect 8 SIP Trunks and 16 VoIP Users (8 Pre-Activated)
ETERNITY NE IP8	License to Enable 8 VoIP Users
ETERNITY NE GSM	GSM Port for Voice Calls
ETERNITY NE UMTSA	UMTS (3G) Port for Voice Calls for USA and Compatible Networks
ETERNITY NE UMTSE	UMTS (3G) Port for Voice Calls for Europe and Compatible Networks
ETERNITY NE VMS	Voice Mail System to Attend 4 Simultaneous Calls with Mailboxes for Individual Users
ETERNITY NE 4WDP	Relay Contact for Door Lock
ETERNITY NE SMS	License to Enable SMS Gateway Functionality

ABOUT MATRIX

Established in 1991, Matrix is a leader in Telecom and Security solutions for modern businesses and enterprises. An innovative, technology driven and customer focused organization; the company is committed to keep pace with the revolutions in the telecom and security industries. With around 30% of its human resources dedicated to the development of new products, Matrix has launched cutting-edge products like IP-PBX, Universal Gateways, VoIP Gateways and Terminals, GSM Gateways, Access Control and Time-Attendance Systems, Video Surveillance System and Fire Alarm Systems. These solutions are feature-rich, reliable and conform to the international standards. Having global foot-prints in Asia, Europe, North America, South America and Africa through an extensive network of more than 500 channel partners, Matrix ensures that the products serve the needs of its customers faster and longer. Matrix has gained trust and admiration of customers representing the entire spectrum of industries. Matrix has won many international awards for its innovative products.



For further information, please Contact


NUTECH SOLUTIONS
 # 113-A, Periyar Pathai West,
 Arumbakkam, Chennai-600106.
 Phone: +91-44-236 235 04/05
 Mobile: +91-89 39 670 670
 Email: nutech@nutech.co.in
 Website: www.nutechsolution.com



MATRIX COMSEC

394 - GIDC, Makarpura, Vadodara - 390 010, India.
 Ph: +91 265 2630555, Fax: +91 265 2636598
 E-mail: Inquiry@MatrixComSec.com
 SMS 'MATRIX' to +91 99987 55555
www.MatrixTeleSol.com

Due to continuous technology upgradations, product specifications are subject to change without notice.